

ABSTRACT OF THE DISCLOSURE

When the three-dimensional direction the head faces is detected by three axes, that is, a yaw angle that is an angle turning around an erect axis erected on the horizontal surface of the head, and a pitch angle and a roll angle that are angles formed by the above erect axis and two axes perpendicular thereto, a gyro sensor 11 which detects the yaw angle from the integral value of the acceleration, a tilt sensor 12 which detects the inclination of a plane that intersects the direction of the erect axis at right angles, and calculation element 14 which calculates the pitch angle and the roll angle from the output of a tilt sensor are provided, so that the direction that the head faces can be detected with a simple detecting structure including the two sensors, in a head mounted display or the like.